

3.4000  
3(4), 20(2)  
AUTHOR:

Lobanov, A.M., Professor, Doctor  
of Technical Sciences

67821  
SOV/154-59-6-7/19

TITLE: An Accurate Method of Determining Elements of Reciprocal  
Orientation of Aerial Photographs by the Aid of an Electron  
Computer

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i  
aerofotos"yemka, 1959, Nr 6, pp 65-78 (USSR)

ABSTRACT: The present paper gives a method of determining the elements  
of reciprocal orientation in vertical photographs with a high  
accuracy. This high accuracy is independent of the terrain  
relief and of the deviation of the point position from  
standard. In this method the direction cosines for the  
coordinates of the left and the right aerial photograph are  
first found by the aid of successive approximations. These  
cosines determine the position of these photographs with res-  
pect to the photogrammetric coordinate system of the stereo-  
model. The elements of reciprocal orientation of aerial  
photographs are then computed as functions of the direction  
cosines. In stereotriangulation, the direction cosines can  
be used for determining the directions in the photo base

Car APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320006-8"

An Accurate Method of Determining Elements of  
Reciprocal Orientation of Aerial Photographs by  
the Aid of an Electron Computer

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or the angular elements of the outer orientation of aerial photographs. The theory of the method is given. The first approximation for the values of the direction cosines is obtained first. If, after this first approximation the residual vertical parallaxes are larger than the measuring errors in aerial photographs, a second approximation must be obtained for the direction cosines. Even if afterwards the residual vertical parallaxes exceed the established value, a third approximation of the direction cosines must be determined. This is continued for as long until the residual vertical parallaxes do not exceed the measurement error of the aerial photographs. The elements of the reciprocal orientation are then determined from the last approximation: formulas (31). In correspondence with the theory given here, A.P. Shurygin with the author's participation set up a program for the electron computer "Strela" at the Vychislitel'nyy tsentr (Computing Center). Figure 3 shows the scheme of this machine, and the working mode of the latter is briefly described. An accurate description thereof can be found in the book by A.I. Kitov.

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67821

SOV/154-59-6-7/19

An Accurate Method of Determining Elements of  
Reciprocal Orientation of Aerial Photographs by  
the Aid of an Electron Computer

The program is described, and the results of the determination of the reciprocal orientation elements of aerial pictures are given in table 2. The following persons participated in the investigation: the technicians of the aerophototopographic team K.A. Averkiyeva, V.I. Kruchenova, N.Ye.Semenova, and V.V. Shchukina. Engineer I.A. Shmidt and the author had the supervision. Table 4 shows the results of the computation of reciprocal orientation elements of a picture pair by the aid of the electron computer. These elements were also computed after the method by Professor N.A. Urmayev (Table 5) by the aid of the "Strela". It may be observed from the comparison of the two tables that the method given here is more accurate. There are 5 figures, 5 tables, and 2 Soviet references.

SUBMITTED: April 6, 1959

Card 3/3

L. BANDU, A. N.

807/6-59-7-23/25

X(2), 3(4)

None Given

Chronicle (Khronika)

Geodesiya i kartografiya, 1959, Nr 7, p 80 (USSR)

From May 27 to June 1, a conference dedicated to the history of natural sciences and technology took place in Moscow. It was organized by the Institute of Natural Science and Technology of the USSR (Institute of Natural Science and Technology of the USSR) and the Academy of Sciences of the USSR. The following reports were delivered at the meetings of the Section of Geologic-geographic sciences: S. Ye. Fel', "Russia's Cartography in the 16th-17th Centuries"; S. G. Yerayev, "Topographic Map of Russia in the 18th Century"; S. G. Yerayev, "Topographic Map of Russia in the 19th Century"; A. S. Gubinskiy, "History of the Application of the Method of Least Squares in Geodesy"; M. E. Tselis, "Development of Accurate Methods of Astronomic Determinations

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in the Field"; M. E. Tselis, "Development of Accurate Methods of Astronomic Determinations of Light Location (Geodesy) in the USSR"; A. E. Likhachev, "Development of Accurate Methods in Photogrammetry"; A. V. Ryabinin, "History of the Building of Photogrammetric Apparatus in the Soviet Union".

Card 2/2

LOBANOV, Aleksey Nikolayevich, prof., doktor tekhn. nauk; YUTANOV, M.N., dots., kand. tekhn. nauk; YENIKEYEV, G.Sh., inzh.; VALUYEV, A.S., dots.; VASIL'YEVA, V.I., red. izd-va; ROMANOVA, V.V., tekhn. red.

[Photogrammetric topography; terrestrial stereophotographic surveying] Fotopografiia; nazemnaia stereofotograficheskaia s'emka. Izd.2., perer. i dop. Moskva, Izd-vo geodez. lit-ry, 1960. 194 p. (MIRA 14:8)

(Photographic surveying)

LOBANOV, A.N., prof., doktor tekhn.nauk

Determining the elements of relative orientation of perspective  
aerial photographs. Izv.vys. ucheb. zav.; geod. i aerof. no.5:  
83-90. '60. (MIRA 13:12)

(Aerial photogrammetry)

KONSHIN, M.D., prof. doktor tekhn.nauk; LOBANOV, A.N., prof. doktor tekhn.  
nauk; LAVROV, N.P., dotsent, kand.tekhn.nauk

Ninth International Photogrammetric Congress and the development  
of photogrammetry abroad. Izv. 'vys. ucheb. zav.; geod. i aerof.  
i no.6:53-68 '60. (MIRA 14:5)  
(Aerial photogrammetry—Congresses)

KONSHIN, M.D., doktor tekhn.nauk; LOBANOV, A.N., doktor tekhn.nauk;  
LAVROV, N.P., kand.tekhn.nauk

Ninth International Photogrammetric Congress. Geod. 1 kart.  
no. 12:3-10 D '60. (MIRA 14:1)  
(Photogrammetry—Congresses)



VALUYEV, Afanasiy Sergeyevich; GERTSENOVA, K.N., kand. tekhn. nauk, retsenzent; LOBANOV, A.N., retsenzent; BORDYUKOV, M.P., retsenzent; BUDYLOV, P.V., retsenzent; OVSYANNIKOV, R.P., retsenzent; POGORELOV, V.M., retsenzent; ROGOZIN, S.M., retsenzent; VASIL'YEVA, V.I., red. 1zd-va; SUNGUROV, V.S., tekhn. red.

[Practical work in stereophotogrammetry] Praktikum po stereofotogrammetrii. Moskva, Izd-vo geodez.lit-ry, 1961. 319 p.  
(MIRA 15:1)

1. Kafedra fotogrammetrii Voenno-inzhenernoy akademii im. V.V.Kuybysheva (for Lovanov, Borydyukov, Budylov, Ovsyannikov, Pogorelov, Rogozin).

(Photogrammetry)

LOBANOV, A.N.

Development of electronic methods in photogrammetry.  
Trudy Inst.ist.est.i tekhn. 37:302-310 '61. (MIRA 14:10)  
(Photogrammetry)  
(Electronics)

LOBANOV, A.N., prof., doktor tekhn.nauk

Single-carriage stereocomparator. Izv.vys.uchb.zav.; geod.1  
aerof. no.4:117-119 '62. (MIRA 16:2)  
(Photogrammetry—Equipment and supplies)

RAYZER, Petr Yakovlevich; LOBANOV, A.N., otv. red.; SKACHKOV, S.A.,  
red.izd-va; VOLKOVA, V.V., tekhn. red.

[Development of aerial methods in Russia and the Soviet Union]  
Razvitie aerometodov v Rossii i Sovetskom Soiuze. Moskva, Izd-  
vo Akad. nauk SSSR, 1963. 63 p. (MIRA 16:4)  
(Aeronautics in surveying)

LOBANOV, A.N., pr ., doktor tekhn. nauk

Multistrip spatial phototriangulation. Izv. vys. ucheb. zav.;  
geod. i aerof. no.3:75-78 '63. (MIRA 17:1)

LOBANOV, A.N., doktor tekhn. nauk; PULTORAK, V.K., dotsent, kand. tekhn. nauk;  
DUBINOVSKIY, V.B., kand. tekhn. nauk

Programmed teaching and the use of teaching machines in photogrammetry.  
Izv. vys. ucheb. zav.; geod. i aerof. no.5:75-82 '64. (MIRA 18:5)

KISLOV, V.V.; ZAITOV, I.R.; LOBANOV, A.N., doktor tekhn. nauk,  
retsenzent; LEVCHUK, G.P., kand. tekhn. nauk, dots.,  
retsenzent; BORDYUKOV, M.P., kand. tekhn. nauk, dots.  
retsenzent; OVSYANNIKOV, R.I., kand. tekhn. nauk, dots.,  
retsenzent; KOZYLOV, V.N., kand. tekhn. nauk, dots.,  
retsenzent; KIBIR, N.Ya., doktor tekhn. nauk, prof.,  
red.  
[Practical work in photogrammetry] Praktikum po foto-  
grammetrii. Moskva, Nedra, 1965. 187 p.  
(MIRA 18:6)

SAMOYLOVICH, G.G., prof.; BELYAYEV, N.I., inzh.; KUDRITSKIY, D.M., dots.; GLAGOLEV, A.V., inzh.; NEFEDOV, P.M., inzh.; GALKINA, Ye.A., st. nauchn. sotr.; PLINK, L.I., inzh.; DONSKOY, I.P., prof., retsenzent; SAVEL'YEV, V.V., kand. tekhn. nauk, dots., retsenzent; ALYSHEV, I.F., kand. tekhn. nauk, dots., retsenzent; LOBANOV, A.N., prof., doktor tekhn. nauk, retsenzent; DOROKHOV, B.A., inzh., red.

[Use of aerial photographic surveying in forest engineering]  
Primenenie aerofotos"emki v lesoinzhenernom dele. Moskva, Lesnaya promyshlennost', 1965. 354 p. (MIRA 18:10)

1. Kafedra sukhoputnogo transporta lesa Lesotekhnicheskoy akademii im. S.M.Kirova (for Alyshev). 2. Zamestitel' glavnogo inzhenera Gosudarstvennogo instituta po proyektirovaniyu lesnogo transporta (for Dorokhov).



IOBANOV, A.N., doktor tekhn. nauk, prof.

Ninth All-Union Conference on Aerophotography. Izv. vyzn. inst.  
zav.; geod. i aerof. no.2:141-148 '88. (MBA 18-10)

ACC NR: AP6017069

(A)

SOURCE CODE: UR/0154/05/000/005/0075/0079

43  
K

AUTHOR: Lobanov, A. N. (Professor, Doctor of technical sciences)

ORG: none

TITLE: Analytical computer-based method of orienting stereomodels

SOURCE: IVUZ. Geodeziya i aerofotos"yemka, no. 5, 1965, 75-79

TOPIC TAGS: photogrammetry, automatic stereoplotter, successive approximation

ABSTRACT: Photogrammetric coordinates are determined for various points of a model and transformed into the corresponding geodetic coordinates. Starting with formula (1)

$$\left. \begin{aligned} X_r &= X_0 + \Delta X_r = X_0 + (a_1 X + a_2 Y + a_3 Z) t \\ Y_r &= Y_0 + \Delta Y_r = Y_0 + (b_1 X + b_2 Y + b_3 Z) t \\ Z_r &= Z_0 + \Delta Z_r = Z_0 + (c_1 X + c_2 Y + c_3 Z) t \end{aligned} \right\} \quad (1)$$

for the calculation of geodetic coordinates, the author derives the corrected formulas (5) and (6):

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UDC: 528. 721. 122

L 390 3-8

ACC NR: AP6017069

$$\left. \begin{aligned} a_x \delta X_0 + d_x \delta \xi + e_x \delta \eta + f_x \delta \theta + g_x \delta t + l_x &= v_x \\ b_y \delta Y_0 + d_y \delta \xi + e_y \delta \eta + f_y \delta \theta + g_y \delta t + l_y &= v_y \\ c_z \delta Z_0 + d_z \delta \xi + e_z \delta \eta + f_z \delta \theta + g_z \delta t + l_z &= v_z \end{aligned} \right\}, \quad (5) \quad \text{or} \quad \left. \begin{aligned} l_x &= X'_0 + \Delta X'_r - X_r \\ l_y &= Y'_0 + \Delta Y'_r - Y_r \\ l_z &= Z'_0 + \Delta Z'_r - Z_r \end{aligned} \right\}. \quad (6)$$

where  $X_0, Y_0, Z_0$  are geodetic coordinates of the point of origin of the photogrammetric coordinates.  $X, Y, Z$  are photogrammetric coordinates of a given point on the model,  $a_1, b_1, c_1$  are orientation cosines, which depend on the Euler's angles  $\xi, \eta, \theta$ , and which permit the transformation from the photogrammetric to geodetic system of coordinates;  $t$  is a factor expressing the scale of the model. The equations (5) are written for every base point, the condition being that the number of such equations is greater than the number of unknowns. The unknowns are determined by the method of successive approximations. Such calculations should be continued until the values of the unknowns have decreased below the permissible error level. Knowing these elements of the model orientation, the geodetic coordinates of various points may be calculated by means of formula 1. When the model does not exactly correspond to the locality, the cumulative errors may become considerable in extended phototriangulation traverses. To eliminate the effect of distortion, the photogrammetric coordinates of the

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ACC NR: AP6017069

base points are calculated and the corrections from the equation (8) and (9) are determined.

$$\left. \begin{aligned} X'_i &= X'_i + A_0 + A_1 X'_i + A_2 Y'_i + A_3 X'^2_i + A_4 X'_i Y'_i + A_5 X'^2_i + A_6 Y'^2_i \\ Y'_i &= Y'_i + B_0 + B_1 X'_i + B_2 Y'_i + B_3 X'^2_i + B_4 X'_i Y'_i + B_5 X'^2_i + B_6 Y'^2_i \\ Z'_i &= Z'_i + C_0 + C_1 X'_i + C_2 Y'_i + C_3 X'^2_i + C_4 X'_i Y'_i + C_5 X'^2_i + C_6 Y'^2_i \end{aligned} \right\} (8)$$

$$\left. \begin{aligned} A_0 + X'_i A_1 + Y'_i A_2 + X'^2_i A_3 + X'_i Y'_i A_4 + X'^2_i A_5 + Y'^2_i A_6 + X'_i - X'_i &= v_x \\ B_0 + X'_i B_1 + Y'_i B_2 + X'^2_i B_3 + X'_i Y'_i B_4 + X'^2_i B_5 + Y'^2_i B_6 + Y'_i - Y'_i &= v_y \\ C_0 + X'_i C_1 + Y'_i C_2 + X'^2_i C_3 + X'_i Y'_i C_4 + X'^2_i C_5 + Y'^2_i C_6 + Z'_i - Z'_i &= v_z \end{aligned} \right\} (9)$$

The minimum of eight base points is required to evaluate the unknowns  $A_1$ ,  $B_1$  and  $C_1$  (see Fig. 1). Six points suffice for short traverses since  $A_5=A_6=B_5=B_6=C_5=C_6=0$ . When the coordinates of the photographed points are obtained by the radiogeodetic method or

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ACC NR: AP6017069

when the increments are obtained with a statoscope, the equations (10) would be solved in addition to (9).

$$A_0 + X'A_1 + X'^2 A_2 + X'^3 A_3 + X' - X'_0 = v_x, \quad (10)$$

$$B_0 + X'B_1 + X'^2 B_2 + X'^3 B_3 + Y' - Y'_0 = v_y, \quad C_0 + X'C_1 + X'^2 C_2 + X'^3 C_3 + Z' - Z'_0 = v_z,$$

where  $X'$ ,  $Y'$ ,  $Z'$  are reduced photogrammetric coordinates of the photographed points,  $X'_0$ ,  $Y'_0$ ,  $Z'_0$  are calculated photogrammetric coordinates of the same points. If the pre-

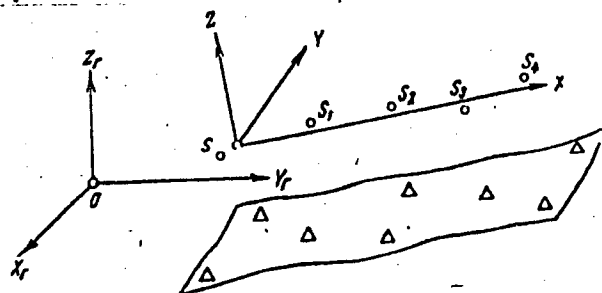


Fig. 1.

cision varies during determination of different unknowns, the values should be weighed accordingly. Proceeding from the corrected equations (9) and (10) to the normal ones (1), the values of  $A_1$ ,  $B_1$

and  $C_1$  which provide the inclination and

the distortion of the model are obtained.

Upon establishing the values of  $A_1$ ,  $B_1$  and  $C_1$ , the photogrammetric coordinates of all the points of the network are determined and transformed to geodetic coordinates. In all cases of a short traverse, Hauss' system of geodetic coordinates may be used in the transformation. Orig. art. has: 10 formulans.

SUB CODE: 08 14 / SUBM DATE: 20Apr65/

ORIG REF: 006

Card 4/4 n/24

LOBANOV, A. P.

USSR/ Biology - Botany

Card 1/1 Pub. 86-31/33

Authors : Lobanov, A. P.

Title : Peculiarities of the behavior of vegetation in cold soils

Periodical : Priroda 43/11, 124-126, Nov 1954

Abstract : A review is made of the book, "Peculiarities of the Behavior of Vegetation in Cold Soils," by V. P. Dadykin, published by the Publishing Office of the Academy of Sciences of the USSR, in 1953, and containing 277 pages. Points brought out in the book are such as the shifting of phases of development of the plants and their dwarfing. The book is given a high rating.

Institution: ....

Submitted : ...

LOBANOV, A.P.

Bottomland soils of the Far North [with English summary in insert].  
Pochvovedenie no.12:78-79 D '56. (MLRA 10:2)

1. Opytnoye khozyaystvo Sibirskogo nauchno-issledovatel'skogo instituta, Omsk.  
(Okhotsk region--Soils)

RAL'KO, V.A., Geroy Sotsialisticheskogo Truda; LOBANOV, A.P.; KURLYPO, M.F.;  
YANUSHEVSKAYA, M.S.; FEDOTEKINA, A.I.

Introducing scientific farm management on the "Stalin" Collective  
Farm. Zemledelie 7 no.8:6-11 Ag '59. (MIRA 12:10)

1.Predsedatel' kolkhoza imeni Stalina, Pinskogo rayona, Brestskoy oblasti (for Ral'ko). 2.Nauchno-issledovatel'skiy institut ekonomiki i organizatsii sel'skokhozyaystvennogo proizvodstva Akademii sel'skokhozyaystvennykh nauk BSSR (for Lobanov, Kurlypo, Yanushevskaya). 3.Belorusskiy nauchno-issledovatel'skiy institut zhivotnovodstva (for Fedotkina).  
(White Russia--Collective farms)



KOZEL, V.P.; LOBANOV, A.P.

White Russian collective farms are striving for better  
cropping practices. Zemledelie 7 no.10:10-15 0 '59.  
(MIRA 13:1)

1. Nauchno-issledovatel'skiy institut ekonomiki i organizatsii  
sel'skokhozyaystvennogo proizvodstva Akademii sel'skokhoz.nauk  
BSSR, 2. Predsedatel' kolkhoza "1-ye Maya", Slutskogo rayona,  
Minskoy oblasti (for Kozel).  
(White Russia--Collective farms)

L 11697-66 EWT(m)/ETC/F/EPF(n)-2/ENG(m)/ENP(t)/ENP(b)/EWA(h) IJP(c) JD/WW/JG/DM  
 ACC NR: AP6008249 SOURCE CODE: UR/0089/65/019/005/0452/0453

AUTHOR: Belov, S. P.; Demin, V. P.; Kazanskiy, Yu. A.; Popov, V. I.; Lobakov, <sup>77</sup>  
 A. P. <sup>B</sup>

ORG: none

TITLE: Secondary gamma-emission<sup>19</sup> coefficients for aluminum, copper, and tungsten  
<sup>27</sup> <sup>27</sup> <sup>27</sup>

SOURCE: Atomnaya energiya, v. 19, no. 5, 1965, 452-453

TOPIC TAGS: aluminum, tungsten, copper, gamma flux, neutron flux, gamma quantum, secondary emission, radiation shielding

ABSTRACT: The coefficient of secondary gamma emission-the ratio of total capture-gamma flux with energies above threshold emitted from a shielding surface to the total neutron flux leaving the same surface-was determined for Al, Cu, and W, using the RIZ reactor<sup>19</sup> as the neutron source. Measurements were made for gamma quanta over 5 Mev and for shielding thicknesses of 20 cm for Al, 9.5 to 48 cm for Cu, and 5 to 17 cm for W. [NA] <sup>55</sup>, <sup>14</sup>

SUB CODE: 18, 20 / SUBM DATE: 10Mar65 / ORIG REF: 004

BVK  
 Card 1/1

UDC: 539.122

2

DROZD, Ya.I.; LOBANOV, A.T.

Study of the strength of agloporite under compression.  
Sbor.nauch.trud.Bel.politekh.inst. no.89:8-15 '60. (MIRA 14:8)  
(Aggregates (Building materials))--Testing)

LOBANOV, A.T.

Electric method of determining water saturability and density  
of a mixture of agloporite fragments. Sbor.nauch.trud.Bel.  
politekh.inst. no.89:49-53 '60. (MIRA 14:8)  
(Aggregates (Building materials))--Testing)

KORNIYENKO, V.M.; LOBANOV, A.V.; DENISOV, V.M.

Enzymatic splitting of serum albumin in animals of various age.  
Uch. zap KHGU 108:41-44 '60. (MIRA 14:3)

1. Kafedra biokhimii Khar'kovskogo gosudarstvennogo universiteta.  
(BLOOD PROTEINS) (AGE) (PEPSIN)

PEKLO, M.I.; ALABUKHIN, I.S.; LEKTOROVICH, I.V.; LOBANOV, A.Ye.

Straightening planing saws. Der.prom. 7 no. 6:17-20 Je '58.  
(MIRA 11:8)

(Circular saws)

LOBANOV, A.Z., Arkadiy Zakhar'yevich; TRET'YAKOV, N.P., redaktor; RYBIN,  
I.V., tekhnicheskiy redaktor

[Laws of mechanical movement] Zakony mekhanicheskogo dvizhenia.  
Moskva, Gos.uchebno-pedagog. izd-vo Ministerstva prosveshchenia  
RSFSR, 1955. 59 p. [Microfilm] (MLRA 9:2)  
(Mechanical movements)

LOBANOV, B.; CHERNIKOV, D.

Environmental chamber for plants. Tekh.mol. 29 no.3:7 '61.  
(MIRA 14:3)  
(Botanical research) (Greenhouses)



LOBANOV, D. DOCENT

600

1. LOBANOV, D., Docent

2. USSR (600)

(MVM) (Moscow Evening Machine-Building Institute) "Romanov, I. M. Cutting Threads in Light Alloys with a Screw Tap" Stanki i Instrument, 12, No. 1, 1941.

9. [REDACTED] Report U-1503, 4 Oct. 1951

LOBANOV, D.A.; AVERBUKH, M.N.

Universal loaders. Mashinostroitel' no.11:28-29 N '63.  
(MIRA 16:11)

LOBANOV, D.A., inzh.

Structure of the Kommunar ore field in the Kuznetsk Alatau  
and methods of exploratory boring. Izv.vys.ucheb. zav.;  
gor.zhur. 7 no.3:3-8 '64 (MIRA 17:8)

1. Sverdovskiy gornyy institut imeni V.V. Vakhrusheva. Re-  
komendovana kafedroy poiskov i razvedki.

ACC NR: AP6029082

SOURCE CODE: UR/0413/66/000/014/0156/0156

INVENTOR: Rubtsov, M. V.; Mikhlin, Ye. Ye.; Vorob'yeva, V. Ya.; Lobanov, D. I.;  
Komarova, N. A.

ORG: none

TITLE: Preparation of 1-carbethoxymethyl-4-carbethoxypiperidine. Class 12,  
No. 149106

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 156

TOPIC TAGS: ~~carbethoxymethyl-4-carbethoxypiperidine synthesis~~, ethyl isonipelate  
alkylation, chloroacetic acid ester, *ALKYLATION, CARBON COMPOUND*

ABSTRACT: To increase the yield and to simplify the preparation of the title  
compound by alkylation of ethyl isonipecate (I) with ethyl chloro-  
acetate, the hydrochloride of I is alkylated in anhydrous ethanol in  
the presence of  $\text{Na}_2\text{CO}_3$ . [WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 05Sep61

Card 1/1

| PROCESSING AND PROPERTIES INDEX                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                | The process of protein denaturation during the heat treatment of meat and fish. D. I. Lohmanov and S. V. Ilykova. <i>Voprosy Pitaniya</i> 7, No. 5, 1973 (in German 23) (1978).—Denaturation of beef and fish proteins upon heating in water begins at 30.5° and is 90% completed at 60.5°. The extent of denaturation was detd. by N analyses of the fractions sol. and insol. in H <sub>2</sub> O and 10% NaCl. At 40° 30% of the meat globulins and 40% of the fish globulins were denatured. S. A. Karjala |
| ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| REGION: EUROPE                                   | GROUP: 100-101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SUBJECT: 10                                      | CLASS: 100-101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

LOVANOV, D. I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

| <u>Name</u>                                                                                      | <u>Title of Work</u>                | <u>Nominated by</u>                          |
|--------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------|
| MOLCHANOVA, O. P.<br>LOVANOV, D. I.<br>LIFSHTITS, M. O.<br>SKURIKHIN, M. A.<br>TSYPLENKOV, N. P. | "Book of Tasty and Healthful Foods" | Ministry of the Food Products Industry, USSR |

SO: W-30604, 7 July 1954

SIVOLAP, I.K., redaktor; MOLOCHANOVA, O.P., professor, redaktor; ~~LOBANOV, D.I.~~  
professor, redaktor; SKURIKHIN, M.A., redaktor; LIPSHITS, M.O., re-  
daktor; TSYPLENKOV, N.P., redaktor.

[A book about tasty and healthy food] Kniga o vkusnoi i zdorovoi  
pishche. Moskva, Pishchepromizdat, 1954. 399 p. . (MLRA 8:2)

1. Russia (1923- U.S.S.R.) Ministerstvo promyshlennosti prodo-  
vol'stvennykh tovarov.  
(Cookery)

LEBANOVA, D.I.; KOROBIKINA, G.S. (Moskva)

Vegetable cell membrane content of smooth diets. Vop.vit. 16 no.3:  
23-28 Vy-Je '57. (MLRA 10:10)

1. Iz otdela pishchevoy tekhnologii (zav. - kandidet tekhnicheskikh  
nauk S.M.Bessonov). Instituta pitaniya ANI SSSR, Moskva.  
(DISTS,

bland, vegetable cell membranes (Rus))



LOBANOV, D.I.; KOROBKINA, G.S.; MORDKOVICH, M.S.

Homogenized vegetable purée as a product used in therapeutic diets  
[with summary in English]. Vop.pit. 16 no.5:84-87 S-O '57.

(MIRA 11:3)

1. Iz tekhnologicheskoy laboratorii (zav. - prof. D.I.Lobanov)  
Instituta pitaniya AMN SSSR i eksperimental'nogo konservnogo zavoda  
(glavnyy inzhener M.S.Mordkovich) Vsesoyuznogo nauchno-issledovatel'-  
skogo instituta konservnoy i ovoshchesushil'noy promyshlennosti, st.  
Biryulevo Moskovskoy oblasti.

(VEGETABLES,

homogenized purée in diet ther. (Rus))

POLYACHEK, Yakov Grigor'yevich, GRIGOR'YEV, P. Ya., red.; KAGANOVA, A.A., red.;  
LOBANOV, D.I., red.; MANLIS, A.Ya., red.; PROTOPOPOV, S.I., red.;  
SIDOROV, V.A., TROPIMOVA, V.I., red. CHERVYAKOVA, L.S., red.;  
MEDRISH, D.M. tekhn.red.

[Restaurant sanitation] Sanitariia stolovoi. Moskva, Gos. izd-vo  
torg. lit-ry, 1958. 127 p. (MIRA 11:9)  
(Restaurants, lunchrooms, etc.,--Sanitation)

SIDOROV, Vasil'y Alekseyevich; GRIGOR'YEV, P.Ya., red.; KAGANOVA, A.A., red.;  
LOBANOV, D.I., red.; MANELIS, A.Ya., red.; PROTOPOPOV, S.I., red.;  
TROFIMOVA, V.I., red.; MEDRISH, D.M., tekhn. red.

[Initial processing of foods] Pervichnaya obrabotka i zagotovka  
produktov vprok. Moskva, Gos. izd-vo torg. lit-ry, 1958. 150 p.  
(Food) (MIRA 11:9)

LOBANOV, D.I.; KEREBIN'SKI, Ch.

Reactions producing melanoidins in a heated mixture of sodium glutamate and glucose. Izv.vys.ucheb.zav.pishch.tekh. no.4:123-130 '58. (MIRA 11:11)

1. Moskovskiy institut narodnogo khozyaystva imeni G.V. Plekhanova, Kafedra tekhnologii prigotovleniya pishchi.  
(Melanoidins) (Glutamic acid) (Glucose)

EXCERPTA MEDICA Sec 17 Vol 5/6 Public Health June 59

1774. CONTENT OF CHOLESTEROL IN CERTAIN FOOD PRODUCTS (Russian text) - Lobanov D. I., Vasileva E. N. and Gorelova L. D. Nutrit. Inst., USSR Acad. of Med. Scis, Moscow - VOPR. PIT. 1958. 17/2 (39-42)

Beef, chicken, fish, milk, pot cheese, cream butter and yolk of chicken egg were the subjects of study. The fat content in them was determined in addition to cholesterol. In meat (beef and chicken) mechanically freed from fat, pike-perch and bass fillet, the cholesterol content ranges within relatively narrow limits (48-76 mg. per 100 ml.). Boiling reduces the cholesterol content. During boiling, meat (beef and chicken) and bass fillet lose on the average about 20% of the cholesterol contained in them. Higher losses (about 33%) were observed during the boiling of pike-perch, a product with a higher content of cholesterol than beef and chicken meat and pike-perch fillet. In boiled products therefore, the cholesterol content ranges within narrower limits (from 40 to 50 mg. per 100 ml.) than it does in fresh ones. In raw beef fat, the cholesterol content has a fairly constant level at 100 to 109 mg. per 100 ml. The cholesterol content in milk is variable, depending on the fat content. In milk completely freed from fat, the cholesterol content amounts over-all to only 3 mg. per 100 ml.; in whole milk it increases, with rise of fat content, from 12 to 18 mg. per 100 ml. In the tested samples of pot cheese and cream butter, the cholesterol content was comparatively constant and amounted to 65 to 78 mg. per 100 ml. for pot cheese and 231 to 239 mg. per 100 ml. for butter. Given an identical fat content, the quantity of cholesterol in the yolk of chicken egg varied from 1.6 to 2.1%. The results of the study made can be used for calculating the content of cholesterol and fat in some special diets. References 12.

Burakovskii - Moscow (S)

KOZIN, N., zaslushennyi deyatel' nauki i tekhniki, doktor tekhn.nauk,  
prof.; GRYUNER, V., doktor tekhn.nauk, prof.; LOBANOV, D.,  
doktor tekhn.nauk, prof.; CHISTYAKOV, P., doktor tekhn.nauk,  
prof.; KOLESHNIK, A., doktor tekhn.nauk, prof.

Pay due attention to the storage of products. NTO no.11:62  
N '59. (MIRA 13:4)

(Food--Storage)

LOBANOV, D.I.; GORUN, Ye.G.

Cooking of groats in the production of corn flakes. Kons. i ov.  
prom. 14 no.9:27-28 S '59. (MIRA 12:12)

1.Moskovskiy institut narodnogo khozyaystva im. G.V. Plekhanova (for  
Lobanov). 2.TSentral'nyy nauchno-issledovatel'skiy institut konservnoy  
i ovoshchesushil'noy promyshlennosti (for Gorun).  
(Corn products)

ACC NR: AP6025300 (N) SOURCE CODE: UR/0416/66/000/007/0067/0070

AUTHOR: Averbukh, M. (Engineer); Lobanov, D. (Engineer, Lieutenant colonel)

ORG: none

TITLE: Transportation of packaged cargoes by the Soviet Navy

SOURCE: Tyl i snabzheniye sovetskikh vooruzhennykh sil, no. 7, 1966, 67-70

TOPIC TAGS: freight transportation, loading, unloading

ABSTRACT: Loading operations in the Soviet Navy represent about one-half of the expenses connected with the transportation of piece, bulk, and loose cargoes. The most labor-consuming are loading-unloading operations connected with piece cargoes which are usually handled manually. To reduce the costs, it is recommended that as much unpackaged freight as possible be eliminated and that mechanization be speeded up for loading-unloading operations for both piece and bulk cargoes. It is calculated that this will reduce costs by a factor of 5 to 6.5. Orig. art. has: 2 figures and 1 table. [DW]

SUB CODE: 15/

Card

1/1

*plh*



LOBANOV, D.I.; KOROBKINA, G.S.; BEYUL, Ye.A.; NAUMOVA, L.V.

Improvement of diets for peptic ulcer patients through various technological methods of food processing. Zhur.ob.biol. 20 no.2:77-81 Mr-Apr '59. (MIRA 12:5)

1. Iz tekhnologicheskoy laboratorii (zav. - prof.D.I.Lobanov) i otdeleniya zheludочно-kishechnykh zabolevaniy (zav. - prof. O.L.Gordon [deceased]) kliniki lechebnogo pitaniya AMN SSSR, Moskva.

(DIETS, in var. dis.  
peptic ulcer (Rus))  
(PEPTIC ULCER, ther.  
dietother. (Rus))

SIDOROV, Vasil'y Alekseyevich; GRIGOR'YEV, P.Ya., red.; KAGANOVA, A.A., red.; LOBANOV, D.I., red.; MANELIS, A.Ya., red.; PROTOPOPOV, S.I., red.; TROFIMOVA, V.I.; KAGANOVA, A.A., red.; MEDRISH, D.M., tekhn. red.

[Preliminary processing and preparation of food] Pervichnaia obrabotka i zagotovka produktov vprok. Moskva, Gos. izd-vo torg. lit-ry, 1960. 119 p. (MIRA 14:10)

(Cookery)

LOBANOV, Dmitriy Ivanovich, prof.; KAGANOVA, A.A., red.; SUDAK, D.M.,  
tekhn.red.; MEDRISH, D.M., tekhn.red.

[Technology of food preparation] Tekhnologiya prigotovleniia  
pishchi. Izd.3., perer. Moskva, Gos.izd-vo torg.lit-ry, 1960.  
344 p. (MIRA 13:5)

(Food industry)

TROFIKOVA, V.I., nauchnyy sotr.; SHTEYMAN, R.A., nauchnyy sotr.; GROZNOV, S.R., nauchnyy sotr.; SIDOROVA, L.I., nauchnyy sotr.; DUNTSOVA, V.G.; KAZENOVA, A.R.; PROTOPOPOV, S.I.; SHORIN, G.F., red.; LOBANOV, D.I., red.; MOLCHANOV, O.P., red.; MARTINOVA, Ye.G., red.; SIDOROV, V.A., red.; TIMATKOV, V.D., red.; VAGANOVA, N.A., red.; BABIGEVA, V.V., tekhn. red.

[Collected recipes of dishes for workers and students] Sbornik retseptur blud dlia pitaniia rabochikh i studentov. 2. perer., dop. izd. Moskva, Gos.izd-vo torg.lit-ry, 1961. 491 p. (MIRA 15:1)

1. Russia (1917- R.S.F.S.R.) Ministerstvo torgovli. 2. Nauchno-issledovatel'skiy institut torgovli i obshchestvennogo pitaniya (for Trofimova, Shteyman, Groznov, Sidorova). 3. Upravleniye obshchestvennogo pitaniya Ministerstva torgovli RSFSR (for Duntsova, Kazenova). 4. Glavnyy kulinar Upravleniya obshchestvennogo pitaniya Ministerstva torgovli RSFSR (for Protopopov).  
(Cookery)

MOLCHANOVA, O.P., prof.; LOBANOV, D.I., prof.; MARSHAK, M.S., prof.;  
GANETSKIY, I.D.; BEREZIN, N.I., laureat Stalinskoy premii;  
KONNIKOV, A.G., laureat Stalinskoy premii; LIPSHITS, M.O.;  
METLITSKIY, L.V., doktor sel'skokhoz.nauk; NAMESTNIKOV, A.F.,  
kand.tekhn.nauk. Prinimali uchastiye: ANAN'YEV, A.A.; GROZNOV,  
S.R.; YEFIMOV, V.P.; KIKNADZE, N.S.; NIKASHIN, F.P.; PIROGOV,  
N.M.; SKRIPKIN, G.M.; TSYPLENKOV, N.P. SIVOLAP, I.K., red.;  
SKURIKHIN, M.A., red.; BETSOFFEN, Ya.I., red.; DAMASKINA, G.B.,  
red.; PRITYKINA, L.A., red.; KISINA, Ye.I., tekhn.red.

[Book on tasty and healthy food] Kniga o vkusnoi i zdorovoi  
pishche. Moskva, Pishchepromizdat, 1961. 423 p.

(MIRA 15:2)

1. Chlen-korrespondent AMN SSSR (for Molchanova).  
(Cookery)

VYSHELESSKIY, A.N.; ZABOLOTSKIY, M.S.; YEREMENKO, V.V.; IMSHENETSKIY, A.A.;  
KOZIN, N.I.; KOZLOV, V.V.; LEDOVSKIKH, S.I.; LOBANOV, D.I.;  
MUNDRETSOVA, K.A.; RAZUMOV, A.S.; REUTENISHTEYN, Ya.I.

F.M.Chistiakov; obituary. Mikrobiologiya 29 no.2:313 Mr-Apr '60.  
(MIRA 14:7)

(CHISTIAKOV, FEDOR MAKSIMOVICH, 1898-1959)

LOBANOV, D.I.; YELMANOV, S.F.

Splitting of beef stroma proteins by vegetable enzymes and its effects on their thermal disaggregation. Vop. pit. 20 no.5:48-52  
8-0 '61. (MIRA 14:10)

1. Iz kafedry tekhnologii prigotovleniya pishchi (zav. - prof. D.I.Lobanov) Moskovskogo instituta narodnogo khozyaystva imeni Plekhanova.

(ENZYMES) (BEEF) (PROTEINS)

ANAN'YEV, Aleksey Anan'yevich; GRIGOR'YEV, P.Ya., red.; KAGANOVA, A.A.,  
red.; LOBANOV, D.I., red.; MANELIS, A.Ya., red.; PROTOPOPOV,  
S.I., red.; SIDOROV, V.A., red.; TROFIMOVA, V.I., red.;  
KAGANOVA, A.A., red.; VOLKOVA, V.G., tekhn. red.

[Soups] Supy. Izd.7. Moskva, Gostorgizdat, 1963. 158 p.  
(MIRA 16:5)

(Soups)



LOBANOV, D.I., doktor tekhn. nauk; BRENTS, M.Ya.; ZOLOTOVA, A.I.;  
BALASHOVA, V.K., inzh.; VOL'VOVSKAYA, Ye.A., inzh.; GENING, L.N.,  
inzh.; POLYAKOVA, L.I., inzh.

Vitaminization of mayonnaise by means of vitamin A acetate.  
Masl.-zhir. prom. 29 no.5:40-41 My '63. (MIRA 16:7)

1. Institut pitaniya AMN SSSR (for Lobanov, Brents, Zolotova).
2. Moskovskiy margarinovyy zavod (for Balashova, Vol'vovskaya,  
Gening, Polyakova).

(Vitamins) (Salad dressing)

LOBANOV, D. I.; YELMANOV, S. F.

Use of food acids for accelerating the hydrothermal fission  
of the proteins of cattle meat stroma. Izv. vys. ucheb. zav.;  
pishch. tekhn. no.5:58-61 '62. (MIRA 15:10)

1. Moskovskiy institut narodnogo khozyaystva imeni G. V.  
Plekhanova, kafedra tekhnologii prigotovleniya pishchi.

(Meat) (Physiological chemistry)

LOBANOV, D.I.; RATUSHNIY, A.S.

Obtaining ferment preparations from germinated soya seeds for  
meat tenderizing. Izv.vys.ucheb.zav.; pishch.tekh. no.1:100-103  
'64. (MIRA 17:4)

1. Moskovskiy institut narodnogo khozyaystva imeni G.V.Plekhanova,  
kafedra tekhnologii proizvodstva produktov obshchestvennogo  
pitaniya.

TSVETKOV, Ye. N.; SEMIN, G.K.; LEBENOV, P.I.; KUPCHENKO, M.I. akademik

Correlation of the dissociation constants of carboxylic acids  $RCOOH$  and Taft's  $\sigma$ -constants with the nuclear quadrupole resonance frequencies of halogens in  $RHal$ -type compounds. Dokl. AN SSSR 161 no.5:1102-1105 Ap '65. (MIRA 18:5)

1. Institut elementoorganicheskikh soedineniy AN SSSR.

L 7898-66 EWT(m)/EPF(c)/EWP(j) RM

ACC NR: AP5024972

SOURCE CODE: UR/0286/65/000/016/0034/0034/

AUTHORS: Kabachnik, M. I.; Tsvetkov, Ye. N.; Lobanov, D. I.; Borisov, G.; Malevannaya, R. A.

ORG: none

TITLE: Method for obtaining methyl-di-(aryl-oxymethyl)-, or methyl-di-( $\beta$ -alkoxy-ethoxymethyl)-phosphine oxides. Class 12, No. 173765

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 34

TOPIC TAGS: alkoxy phosphine oxide, phosphorus compound, organic phosphine, hydrocarbon, organic oxide, organic phosphorus compound

ABSTRACT: This Author Certificate presents a method for obtaining oxides of either methyl-di-(aryl-oxymethyl) or methyl-di-( $\beta$ -alkoxyethoxymethyl)-phosphines. The oxide of methyl-di-(chloromethyl)-phosphine is reacted with sodium phenolate or with sodium alkoxyethylate in an inert solvent such as toluene.

SUB CODE: 07/ SUBM DATE: 20Jul64

nw

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UDC: 547.419.1.07

L 39000-66 EWT(m)/EWP(j) RM

SOURCE CODE: UR/0379/65/001/006/0729/0733

ACC NR: AP6029721

AUTHOR: Tsvetkov, Ye. N.; Lobanov, D. I.; Kabachnik, M. I.

ORG: Institute of Organoelemental Compounds, AN SSSR, Moscow (Institut elementoorganicheskikh soyedineniy AN SSSR)

52  
B

TITLE: Electron effect of the diphenylphosphino-group

SOURCE: Teoreticheskaya i eksperimental'naya khimiya, v. 1, no. 6, 1965, 729-733

TOPIC TAGS: diphenyl compound, secondary amine, vinyl compound, molecular structure, phosphorus, chemical synthesis, dissociation constant, ionization, electron donor

ABSTRACT: Studies of the direction in which secondary amines become associated with the vinyl compounds of trivalent phosphorus showed that vinylphosphines and vinylphosphinites are not analogous to the vinyl compounds of elements having unshared pairs of electrons. This points to the electrophilic character of the groupings containing a trivalent phosphorus atom. In this connection, it was of interest to investigate the electron influence of the trivalent phosphorus atom linked to an aromatic ring, and to compare it with the electron influence of nitrogen in similarly structured compounds. The authors investigated the effect of the diphenylphosphino-group and compared it with the effect of the diphenylamino-group and analogous substitutes containing pentavalent phosphorus. For this purpose, the corresponding n-substituted benzole

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ACC NR: AP6029721

acids were synthesized and their dissociation and ionization constants measured. It was found that the diphenylphosphino-group is an electron-acceptor substitute, comparable in its electron-donor effect to the chlorine or bromine. Thus, the beta-orientation in the association of secondary amines with vinyl compounds of trivalent phosphorus is apparently conditioned by the electrophilic nature of the groupings containing an atom of trivalent phosphorus. Orig. art. has: 1 table. [JPRS: 36,455]

SUB CODE: 06 / SUBM DATE: 24Aug65 / ORIG REF: 001 / OTH REF: 015

Card 2/2

ACC NR: AP6032977

SOURCE CODE: UR/0379/66/002/004/0458/0463

AUTHOR: Tsvetkov, Ye. N.; Lobanov, D. I.; Kabachnik, M. I.

ORG: Institute of Organometallic Compounds, Moscow (Institut elementoorganicheskikh sovedinoniy)

TITLE: Study of the electronic influence of the diphenylphosphino group

SOURCE: Teoreticheskaya i eksperimental'naya khimiya, v. 2, no. 4, 1966, 458-463

TOPIC TAGS: substituent, conjugate bond system, dissociation constant, benzoic acid

ABSTRACT: In order to determine the nature of the electron-acceptor effect of the diphenylphosphino group and elucidate the role of p- $\pi$  conjugation in the overall influence of the substituent, the authors determined Hammett's constant  $\sigma_m$  of diphenylphosphino and certain other related groups. To this end, meta-substituted benzoic acids containing diphenylphosphino, diphenylamino, diphenylphosphinyl and thiophosphinyl groups were synthesized, and their ionization constants  $pK_a$  were measured. It was found that the diphenylphosphino group is not only an electron acceptor, but also a meta-orienting substituent having an unshared electron pair. This is probably due to two causes: (1) lack or weakness of the effect of p- $\pi$  conjugation and (2) substantial role of the electron-acceptor effect, which is probably due to d- $\pi$  conjugation. The diphenylphosphinyl and diphenylthiophosphinyl groups are strong meta-orientants

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ACC NR: AF6032977

with an appreciable contribution of conjugation to the overall effect of the substituent ( $\sigma_p - \sigma_m$  is respectively 0.15 and 0.16). A linear Bronsted relationship was observed between the  $pK_a$  values of the acids in aqueous alcohol solutions.

SUB CODE: 07/ SUBM DATE: 10May66/ ORIG REF: 002/ OTH REF: 019

Card 2/2

ACC NR: AP6029082

SOURCE CODE: UR/0413/66/000/014/0156/0156

INVENTOR: Rubtsov, M. V.; Mikhlina, Ye. Ye.; Vorob'yeva, V. Ya.; Lobanov, D. I.;  
Komarova, N. A.

ORG: none

TITLE: Preparation of 1-carbethoxymethyl-4-carbethoxypiperidine. Class 12,  
No. 149106

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 156

TOPIC TAGS: ~~carbethoxymethyl-4-carbethoxypiperidine synthesis~~, ethyl isonipelate  
alkylation, chloroacetic acid ester, *ALKYLATION, CARBON COMPOUND*

ABSTRACT: To increase the yield and to simplify the preparation of the title  
compound by alkylation of ethyl isonipate (I) with ethyl chloro-  
acetate, the hydrochloride of I is alkylated in anhydrous ethanol in  
the presence of  $\text{Na}_2\text{CO}_3$ . [WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 05Sep61

Card 1/1

ACC NR: AP7010711

SOURCE CODE: UR/0020/66/170/005/1103/1106

AUTHOR: Yakovleva, Ye. A.; Tsvetkov, Ye. N.; Lobanov, D. I.; Kabachnik, M. I.  
(Academician); Shatenshteyn, A. I.

ORG: Physico-Chemical Institute im. L. Ya. Karpov (Fiziko-khimicheskiy  
institut); Institute of Hetero-Organic Compounds, AN SSSR (Institut  
elementoorganicheskikh soyedineniy AN SSSR)

TITLE: Protophilic deuterium exchange of some organic compounds of  
trivalent phosphorus

SOURCE: AN SSSR. Doklady, v. 170, no. 5, 1966, 1103-1106

TOPIC TAGS: deuterium compound, deuterium, organic phosphorus compound,  
organic nitrogen compound

SUB CODE: 07

ABSTRACT: The authors consider electron effects in organic compounds of  
trivalent phosphorus, particularly the quantitative aspects of comparable  
electron effects of substituents in phosphorus and nitrogen compounds of sim-  
ilar structure. The rate of isotopic hydrogen exchange with a 0.8 N solution  
of *tert*-C<sub>4</sub>H<sub>9</sub>OK is measured in mixtures of various volumes of diglim and deu-  
terated tertiary butanol at 180°C or with a 0.02 N solution of potassium  
amide in deuterated liquid ammonia at 0 or 25°C in several organic compounds.

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UDC: 547.341

ACC NR: AP7010711

The resultant data show a probability that the smaller differences in exchange rates of aromatic and aliphatic CH bonds in methyldiphenylphosphine than in methyldiphenylamine may be attributed to the higher mobility of hydrogen in the aliphatic CH bonds due to *d*-orbital conjugation, and the increase in mobility of hydrogen in the CH bonds in the ortho position due to the additional inductive effect of the second phenyl radical. This work should serve as a basis for more detailed studies on the kinetics of deuterium removal from substances containing deuterium at a definite position in the molecule. We thank M. I. ARSHINOVA and R. M. GORBATOVA for assistance in this work. Orig. art. has: 2 figures and 2 tables. [JPRS: 40,351]

Card 2/2

ZAGIROV, N.Kh.; LOBANOV, D.P.

Analyzing the extent of heavy tasks involved in stoping and ways to increase labor productivity in systems with timbering and filling.  
Izv.vys. ucheb.zav.; tsvet. met. no.3:27-34 ' 58. (MIRA 11:11)

1. Moskovskiy institut tsvetnykh metallov i zolota. Kafedra razrabotki mestorozhdeniy rud.  
(Mining engineering) (Mine timbering) (Stoping (Mining))

SOV 127-58 3 9/24

AUTHORS: Tret'yakov, I.N. , Mining Engineer, Zagirov, N.Ye. and Lobanov, D.P., Candidates of Technical Sciences

TITLE: Arch-Shaped Concrete-Block Supports for Preparing Mines for Operation (Arochnaya betonitovaya krap v podgotovitel'nykh vyrabotkakh)

PERIODICAL: Gornyy zhurnal, 1958, Nr 3, pp 41-45 (USSR)

ABSTRACT: The authors advise the use of concrete blocks for the construction of supports in mining galleries. Such supports are much stronger and reliable than wooden supports. The concrete blocks are simple to prepare, easy to transport and, by their geometrical form, can be used in horizontal as well as vertical shafts. Depending on mining and technical conditions one of three varieties of arched supports is used: 1) For the supporting of main and preparatory galleries with an established pressure in rocks inclined to a partial scaling, a belt of alternately disposed arched supports with the tightening of intervals with concrete plates is used. The T-form blocks with ground plates and the plates are used for this purpose. 2) Continuous arched supports without ground-plates are used in preparatory galleries in the zone of stoping with unstable rocks in places where ground heaving does not occur; 3) The same supports as in point 2 but on

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SOV-127-58-3-9/24

Arch-Shaped Concrete-Block Supports for Preparing Mines for Operation

reinforced concrete gound-plates, are used in the galleries with unstable side rocks and heaving ground. All these concrete blocks are prepared by the mine. A detailed description of their preparation is given. The cost of preparation of 1 cu m of such blocks represents only 47.6% of cost of 1 cu m of reinforced concrete frames. On table 3 the authors compare the cost of supports installed by different methods. There are 3 photos, 2 figures and 3 tables

1. Mining engineering
2. Structures—Materials
3. Concrete—Performance

Card 2/2

LOBANOV, P.I.; ~~LOBANOV, D.P.~~

Boring and blasting operations in mining in very hard rock. Biul.  
TSIIN tsvet. net. no. 7:5-6 '58. (MIRA 11:7)  
(Mining engineering)



ZAGIROV, N.Kh.; LOBANOV, D.P.; TRET'YAKOV, I.N.

A version of descending horizontal slicing system in mining.  
.Biul.TSIIN tsvet.met. no.10:6-8 '58. (MIRA 11:9)  
(Mining engineering)

ZAGIROV, N.Kh., inzh.; LOBANOV, D.P., inzh.

Downcast cutting is a working safety factor when using  
filling systems. Bezop.truda v prom. 3 no.4:13-15 Ap '59.  
(MIRA 12:6)

(Mining engineering)

LOBANOV, D.P. (Irkutsk)

Birds as our friends ("Sun greeters" by German Sokolov. Reviewed  
by D.P. Lobanov). Priroda 50 no.8:119-120 Ag '61. (MIRA 14:7)  
(Birds--Behavior) (Sokolov, German)

LOBANOV, D.P.; IVANUSHKIN, V.I.

Mining the Mirgalimsay deposit with use of self-propelled equipment  
Izv.vys.ucheb.zav.; tsvet.met. 5 no.3:11-18 '62. (MIRA 15:11)

1. Krasnoyarskiy institut tsvetnykh metallov.  
(Mirgalimsay region--Mining machinery)

LOBANOV, D.P.; BARYSHNIKOV, N.N.; PETROSOV, A.A.; ISHUTINOVA, M.D.,  
red.; LOGINOVA, Ye.I., tekhn. red.

[Breaking ore with slim holes] Otboika rudy shpurami malogo  
diametra. Moskva, 1963. 50 p. (MIRA 16:10)

1. Moscow. Tsentral'nyy institut informatsii tsvetnoy metal-  
lurgii.

(Boring) (Blasting)

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